

Claims

We claim:

1. A lamp module used in a back light device, comprising:
 - a resilient holder having an accommodation portion;
 - a lamp tube having one end accommodated in said accommodation portion of said resilient holder; and
 - a support unit having a reception portion provided to engage with said resilient holder.
2. The lamp module of claim 1, wherein said accommodation portion of said resilient holder is a cavity.
3. The lamp module of claim 1, wherein said reception portion of said support unit is a groove.
4. The lamp module of claim 3, wherein said resilient holder includes a plug portion for engaging with said groove of said support unit.
5. The lamp module of claim 4, wherein said resilient holder further includes a first clamp portion and a second clamp portion, said plug portion is positioned between said first and second clamp portions, and said plug portion is constrained by said first and second clamp portions when said resilient holder engages with said support unit.

6. The lamp module of claim 5, wherein said first clamp portion has a first thickness and said plug portion has a second thickness, and said first thickness is larger than said second thickness.
7. The lamp module of claim 6, wherein said first thickness is about 1.5 to 2 times larger than said second thickness.
8. The lamp module of claim 1, wherein said resilient holder includes a channel for allowing a cable to pass through to connect to said lamp tube.
9. The lamp module of claim 1, wherein a ditch is formed on one side of said support unit to dissipate heat.
10. The lamp module of claim 9, wherein a heat conductive element is disposed in said ditch to dissipate heat.
11. The lamp module of claim 10, wherein said heat conductive element is made of metal.
12. The lamp module of claim 11, wherein said heat conductive element is a copper rod.
13. A lamp module, used in a direct type back light device, comprising:
a resilient holder having a cavity and a plug portion;
a lamp tube having one end accommodated in said cavity of said resilient holder; and

a support unit having a groove provided to engage with said plug portion of said resilient holder.

14. The lamp module of claim 13, wherein said resilient holder further includes a first clamp portion and a second clamp portion, said plug portion is arranged between said first and second clamp portions, and said plug portion is constrained by said first and second clamp portions when said resilient holder engages with said support unit.
15. The lamp module of claim 14, wherein said first clamp portion has a first thickness and said plug portion has a second thickness, and said first thickness is larger than said second thickness.
16. The lamp module of claim 15, wherein said first thickness is about 1.5 to 2 times larger than said second thickness.
17. The lamp module of claim 13, wherein said resilient holder includes a channel for allowing a cable to pass through to connect said lamp tube.
18. The lamp module of claim 13, wherein a ditch is positioned on one side of said support unit to dissipate heat.
19. The lamp module of claim 18, wherein a heat conductive element is disposed in said ditch to dissipate heat.